

2023

MoDOT RESULTS

Safety. Service. Stability.



Missouri Department
of Transportation

www.modot.org

MoDOT RESULTS

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“We work hard to deliver quality transportation projects every day.”

SAFETY

Be Safe

Be Accountable

SERVICE

Be Respectful
Be Inclusive

Be Bold

Be Better

STABILITY

Be One Team
So we can be a
great organization

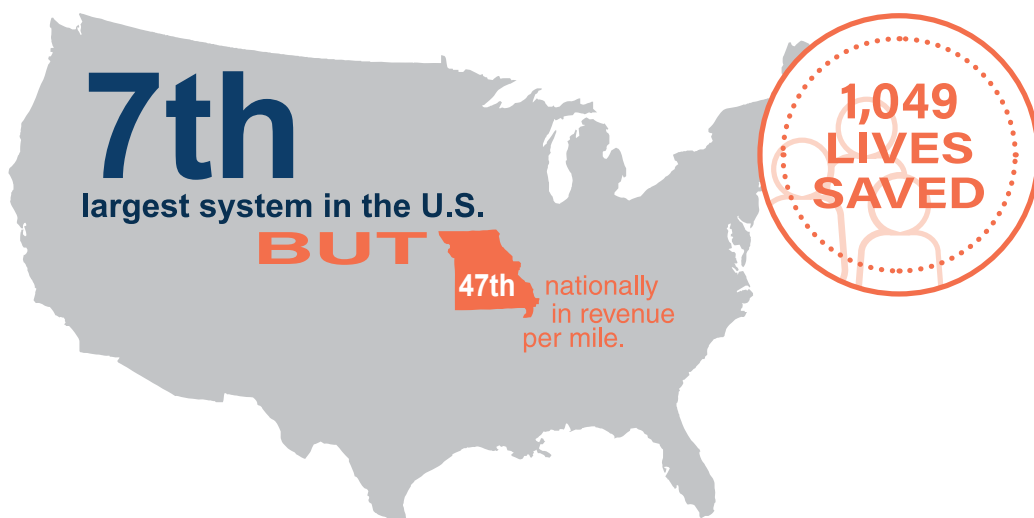
MoDOT Delivers Results

The Missouri Department of Transportation is focused on providing transparent measures of our progress. MoDOT delivers results through accountability, innovation and efficiency. We have developed a system of performance metrics to deliver these results while being good stewards of the state's transportation dollars.

Since 2007, MoDOT has documented more than **\$5.7 billion** in one-time or ongoing savings. This includes redirection of \$212 million in savings in 2023 to roads and bridges and \$688 million in savings to our customers. In the last 16 years, reinvestment in safety enhancements resulted in an estimated 1,049 lives saved. MoDOT is not afraid to make tough decisions. In 2011, we responded to Missouri's critical infrastructure needs by enacting the Bolder Five-Year direction, a plan that reduced 124 facilities, 750 pieces of equipment and 1,200 employees. Over a decade later, these actions have saved \$1.2 billion.

During FY2023, reinforced by an increased 2.5-cent per gallon fuel tax which allowed us to match Federal funds, MoDOT met with our partners and the general public to target \$11 billion in unfunded transportation needs across the state.

MoDOT continues to re-examine all its activities from the delivery of projects for roads and bridges to daily operations. We move some of these savings into our daily operations and internal budgets to have the necessary resources and skilled, experienced employees available to meet more customer expectations. MoDOT's core values of safety, service and stability serve as our foundational pillars. MoDOT is committed to providing a safe, innovative and reliable transportation system, which is essential to Missouri's economic growth.



SAFETY

Strengthening and Growing the Buckle Up Phone Down Movement

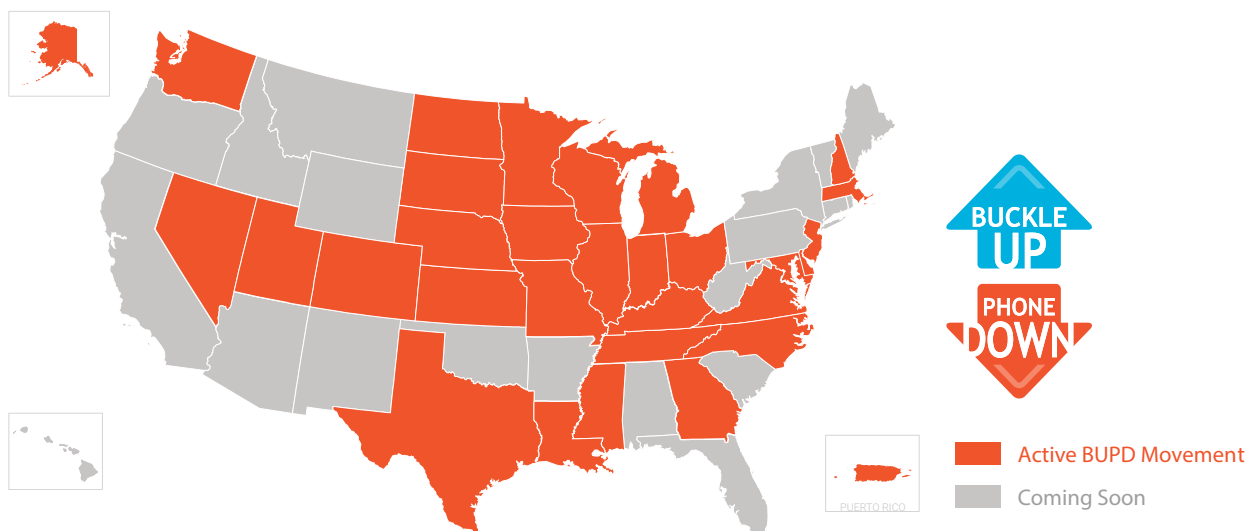
Distracted driving remains a leading cause of crashes in Missouri. Between 2012 and 2021, there were more than 200,000 distracted driving-related crashes across the state, resulting in at least 801 fatalities.

After two years in a row of more than 1,000 fatalities on Missouri's roadways, Gov. Mike Parson signed the Siddens Bening Hands-Free Law in June 2023, prohibiting all drivers from using a handheld electronic communication device while driving. With the law in effect as of August 2023, drivers are prohibited from physically holding or supporting a cell phone with any part of their body; manually typing, writing, sending, or reading text-based messages; recording, posting, sending or broadcasting video, including video calls and social media posts; and watching a video or movie.

"We've seen a troubling and unacceptable trend of distracted driving crashes in recent years, and sadly, more times than not, someone other than the distracted driver was killed," said MoDOT State Highway Safety and Traffic Engineer Nicole Hood. "We're thankful the General Assembly and Gov. Parson recognized the need for a hands-free law in Missouri. We're hopeful this law will change the safety culture around phone use while driving and save lives."

In addition to the new secondary law, MoDOT's Buckle Up Phone Down (BUPD) program was also recognized as a "First Mover" in the U.S. DOT's National Roadway Safety Strategy, released in February 2023. The strategy is a new, comprehensive approach to reversing the rise in traffic fatalities nationwide. MoDOT's Call to Action challenges Missourians to do their part in making Missouri's roads safer by using their seat belt and putting down, or turning off, their phone while driving.

MoDOT initiated the BUPD program in 2017, and it has spread steadily across Missouri with more than 38,000 individuals and businesses pledging to BUPD. The movement has also spanned across the country, with more than half of state departments of transportation participating and sharing the message. Many of these states celebrated "National Buckle Up Phone Down Day" with Missouri on Oct. 25, with messages shared nationwide from Alaska to Puerto Rico.



RESULTS



SAVING LIVES

KEEPING ALL TRAVELERS SAFE

\$1.8 Billion in Safety Benefits, 150 Lives Saved

The Smooth Roads Initiative and Better Roads, Brighter Future programs were back-to-back efforts that improved 5,600 miles of highways. Completed earlier than scheduled, the efforts delivered smoother pavement, brighter striping, rumble stripes and other safety improvements to the highways that carry 76% of Missouri's traffic. These improvements have resulted in more than **\$1.7 billion** of safety benefits to customers since 2007.



SAFER ROADS

SAFETY COMMITMENT

\$7.4 Billion in Total Customer Savings, 701 Lives Saved

To improve roadway safety, MoDOT has provided treatments on roadways to address "run-off-the-road" crashes. By installing thousands of miles of shoulders and rumble strips on rural highways, MoDOT has reduced severe crashes by 30%. Guard cable is used on portions of interstates and other major routes, drastically reducing the number of median crossover crashes, which are often fatal. Also, high-grip surface treatments have achieved a 20% reduction in run-off-the-road crashes and help hold vehicles in the driving lanes. Electronic truck screening allows prequalified trucks to safely bypass weigh stations.



SAFER DESIGN CONCEPTS

STATE-OF-THE-ART DESIGN

\$691 Million in Total MoDOT Savings, 95 Lives Saved

The Diverging Diamond Interchange (DDI), first used in Springfield, Mo., in 2009, solves major traffic and safety issues at a much lower cost than traditional interchange designs. Missouri now has 25 DDIs. Many other states have followed suit, with at least one DDI of their own. J-Turns are a cost-effective alternative to an overpass on four-lane highways and reduce the number and severity of crashes. At locations where J-Turns are installed, crashes are down 25% and there are **88% fewer fatalities**. Missouri also uses shared four-lane highways that feature alternating passing lanes to give motorists periodic opportunities to pass without pulling into the opposing lane.



PUBLIC SAFETY

GENERAL REVENUE HELPS FUND RAIL IMPROVEMENTS

After completing its first State Action Plan for Highway/Railroad Crossings last year, MoDOT identified the need for additional funding to improve rail crossings. In June 2023, Gov. Mike Parson signed House Bill 4 appropriating **\$50 million** for rail safety improvements. The improvement of safety at the 47 passive public railroad crossings on Missouri's three passenger rail lines is the first priority of these funds. MoDOT hired consultant firms to complete independent studies on the passenger rail lines of the Southwest Chief, Missouri River Runner and Texas Eagle to make recommendations on potential improvements. The funding also allowed MoDOT to launch a program with the goal of improving advance warning signs for railroad crossings.

SERVICE

Moving Missourians Safely and Doing So Safely at MoDOT

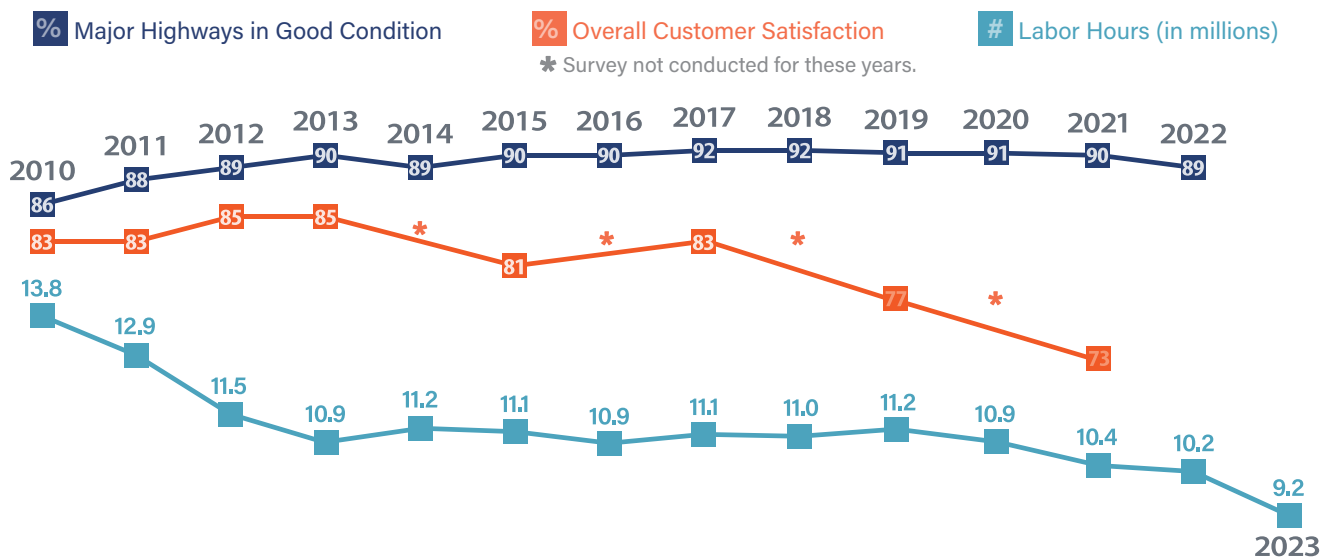
National reports on traffic safety paint a bleak picture of increased costs to employers due to traffic-related incidents and injuries sustained by drivers. To improve driver and fleet safety, the Missouri Department of Transportation implemented telematics to reduce at-risk driving behavior and take a proactive approach to fleet maintenance. Since the initial statewide rollout in 2021 and with all department highway vehicles equipped with Geotab telematics devices since April 2023, MoDOT has seen unprecedented success in keeping their drivers, vehicles and community safer.

The telematics alert drivers when they're doing something that isn't safe, such as if they haven't buckled their seat belt or if they're going over the speed limit. By doing so, MoDOT's drivers have virtually eliminated these at-risk behaviors from within the organization.

Since January 2021, the department saw a **99.3% improvement** in employees wearing their seat belts. In the same time, speeding events of 6 mph over the posted speed limit decreased by 98%, and those of 15 mph over the speed limit decreased by 100%, with zero events since February 2023.

In addition, the department has saved approximately \$1 million by being able to refute false claims with factual telematics data. The use of telematics has also improved reporting efficiencies, saving tens of thousands of hours of work by integrating with the MoDOT Management System and automatically populating data. It's also improved customer service by sending digital alerts to the traveling public of approaching emergency response vehicles or work zones.

Road Condition and Customer Satisfaction



RESULTS



PRACTICAL OPERATIONS

CUSTOMER PRIORITIES

\$582 Million in Total MoDOT Savings

MoDOT has saved \$582 million since 2007 by adjusting mowing and striping schedules, using innovative materials and equipment to fight ice and snow, re-evaluating our snow route priorities and using incarcerated crews. These savings have been redirected back into improving the conditions of Missouri's roads and bridges.



EMBRACING TECHNOLOGY

WEB BASED MOTOR CARRIER CREDENTIALING

\$132 Million in Total Customer Savings

Electronic credentialing saves customers money by the elimination of postage, other fees and time it takes to send the physical documents to MCS. It allows Motor Carriers to increase fleet utilization by quicker, electronic registrations. There is also a reduction in time spent on phone calls by real time, 24/7 access to their registration data.



INNOVATIVE CONTRACTING

INNOVATIVE PROCUREMENT

\$730 Million Redirected to Roads and Bridges

MoDOT uses Alternative Technical Concepts (ATC) to provide solutions that are equal or better than the original bid requirement. ATCs have been used on multiple projects since 2007. Looking to copy private-sector success, legislators authorized Design-Build project delivery. Concentrating on project goals, innovation, schedule and budget, construction is completed more efficiently, with less impact on travelers. Since 2010, Design-Build has saved \$431 million and saved 103 lives. Before design plans and construction projects are completed, they are reviewed for money-saving methods and procedures. In 2023, these engineering reviews saved **\$6.2 million**.



STABILIZING RESOURCES

GENERAL REVENUE HELPS FUND RURAL ROUTE IMPROVEMENTS

In 2023, for the second year in a row, the Missouri General Assembly invested \$100 million of General Revenue into MoDOT for the improvement of more than 1,500 lane miles of low-volume rural routes across the state. The fiscal year 2024 investment comes after an initial investment of **\$100 million** in fiscal year 2023 through Gov. Mike Parson's Rural Routes Program improved more than 1,700 miles of low-volume rural routes. These routes were in poor condition and ineligible for federal funds, impacting investment levels.

STABILITY

Record Investments Made in Transportation Infrastructure

In July, the Missouri Highways and Transportation Commission approved the largest Statewide Transportation Improvement Program (STIP) to date, setting in motion a record \$14 billion-dollar investment in the state's transportation infrastructure. The FY2024-2028 program encompasses more than 1,500 projects planned for the July 1, 2023 – June 30, 2028 timeframe. MoDOT, in conjunction with state and regional planning partners, developed the plan using federal and state revenues. The program, released in June for public review, includes:

- \$10.4 billion in contractor awards for road and bridge construction, averaging \$2.1 billion per year.
- \$3 billion in General Revenue funds to improve I-70, fix low-volume minor roads and upgrade railroad safety crossings.
- Plans for maintenance and upgrades to roads, corridors and bridges.
- Begins to account for \$1.2 billion to handle the impacts of inflation on previously funded projects.

An additional \$4.7 billion in road and bridge needs were identified as part of this year's High-Priority Unfunded Needs list, developed with statewide planning partners. The list is part of a broader, long-term unfunded needs list, totaling \$11 billion over 10 years. The list also identifies \$1 billion in unfunded multimodal needs.

Once-in-a-Lifetime Investment Planned for I-70

This year saw the genesis of the historic investments that will be made to Interstate 70 over the next 7-10 years. Gov. Mike Parson and the Missouri General Assembly have provided support for this once-in-a-lifetime project, allocating \$2.8 billion in General Revenue for the effort. Much of I-70 is strained beyond capacity. Serving as an artery for the nation's economic activity, I-70 carries upwards of 100 million tons of freight per year, thus the need to construct a third lane on the approximately 200 miles of the interstate from Blue Springs to Wentzville. Reconstruction and repair efforts must also be made to the existing infrastructure.



Goals for the Improve I-70 program include:

- A third lane of travel, both eastbound and westbound, from Blue Springs to Wentzville.
- Improving and modernizing the existing pavement and bridges.
- Increasing the efficiency of freight movement.
- Minimizing construction impacts while focusing on safety, communication and construction staging.
- Expanding a diverse workforce through the creation of jobs.

The program will move forward in six phases, with the first spanning I-70 from Columbia to Kingdom City. Construction on phase one could begin as early as summer of 2024 and will be followed by phase two, from Warrenton to Wentzville. Ultimately the program will end where it starts, with the stretch from Marshall to Columbia resulting in a rebirth and revitalization of the interstate.

RESULTS

MANAGING ASSETS

TAKING CARE OF OUR SYSTEM

\$50 Million in Total MoDOT Savings

With 33,808 miles of state highway to manage, taking care of our signs and signals is a big challenge. By reassessing our road sign needs, modifying sign design and installations, converting signal and roadway lighting to LED, merging multiple software contracts into one and scrutinizing every aspect of traffic signal design and operation, **\$50 million** is sent back over time to take care of our system.

FINANCIAL SUCCESS

COMPETITIVE FEDERAL DISCRETIONARY GRANTS FUND

Federal discretionary grants have infused much-needed funding into Missouri's transportation system several times over the last decade. These competitive grants are awarded to states who show a project has national or regional significance in the improvement of safety, efficiency, and the movement of freight and people in and across rural and urban areas. Since 2009, MoDOT has been awarded **\$189 million** in Competitive Federal Discretionary Grants. MoDOT's largest such grant was the **\$81.2 million** INFRA Grant award in 2019 for the Lance Corporal Leon Deraps I-70 Missouri River Bridge near Rocheport, a project vital to both Missouri and the nation.

FINANCIAL STABILITY

FINANCIAL RESPONSIBILITY

\$2.1 Billion in Funding from Partners and State Property Leasing and Sales

Communities contribute to state highway projects to receive needed upgrades faster. If custom, decorative work is desired, those costs are also contributed. In the last 15 years, locals shared **\$2.0 billion** in additional local or federal funding to MoDOT projects and, by managing our right-of-way, put **\$64 million** to roads and bridges.

EMBRACING TECHNOLOGY

USING TECHNOLOGY TO DELIVER PROJECTS

\$18.5 Million in Total MoDOT Savings

Using Light Detection and Ranging (LiDAR) technology to streamline survey costs, LiDAR instruments are used to deliver needed topographical data to highway designers to create roadway plans. This method allows for safer, faster and more accurate collection of data on a large scale and is shown to be 56% less expensive than traditional aerial and land survey. Since implementing in 2007, this technology has saved taxpayers **\$18.5 million**. MoDOT has been a pioneer in embracing this technology and expanding the program each year. MoDOT won the 2018 and 2019 ACEC Engineering Excellence Grand award in partnership with their consultant.

RESULTS



DELIVERING RESULTS

We continue to complete projects on budget and on time.

State Fiscal Year 2023 377 projects completed.	2.9% under budget 95% completed on time.
Over the last 10 years 4,206 projects worth \$11.1 billion completed.	5.0% (\$536 million) under budget 93% completed on time.

DBE Contracts for Federal Fiscal Years 2020-2022: \$349 million of \$2.96 billion total construction payments.

The percent of DBE workforce on projects increased in FFY 2022. Minority contractors increased to 12.01%, and female contractors increased to 65%.

Building the future

The year 2023 saw the Missouri Department of Transportation make headway on several major projects, including the completion of multiple statewide programs.

The FARM Bridge Program (Fixing Access to Rural Missouri) completed its last bridge project in October. The program replaced 31 rural bridges in northern Missouri thanks to a \$20.8 million grant from the Federal Highway Administration and \$5.2 million from MoDOT. The program targeted rural bridges that were weight-restricted, in poor condition, on timber pile or have one-lane but carry two-way traffic.

In December, work concluded on the I-270 North Design-Build Project, which brought much needed improvements along Interstate 270 North from James S. McDonnell Boulevard to Bellefontaine Road in St. Louis.

The \$278 million project, which kicked off on April 20, 2022, brought reconstructed interchanges and additional driving lanes to help alleviate congestion, improved accessibility for bicyclists and pedestrians, an improved outer road system and improved bridges.

Also completed in December was Gov. Mike Parson's Focus on Bridges Program. The final contracts were awarded in early 2023, and construction on the final bridges came to a close at the end of the year. In all, more than \$353 million was invested into 250 bridge repairs and/or replacements across the state since the program's initiation in 2019.

In Kansas City, construction of the new U.S. Route 169 Buck O'Neil Bridge continued, with the closure of the southbound lanes downtown taking place in February. The closure – the most impactful of the project – will last until fall 2024. The project broke ground on June 23, 2021, with construction beginning in July of that year.

The bridge connects downtown Kansas City and interstate routes with the communities north of the river and sees upwards of 50,000 vehicles per day. Construction is scheduled for completion in December of 2024 at a cost of \$220 million.

Tying interstate travel together is the Lance Corporal Leon Deraps I-70 Missouri River Bridge at Rocheport. The project, which includes two new bridges in place of the old one, saw a flurry of activity throughout the year, including the opening of the new westbound bridge in July, and the demolition of the former bridge in September.

The approximately \$240 million project will provide twice the width of the old bridge once complete and will have a lifespan of 100 years. The project is expected to be completed in December 2024 with the new eastbound bridge open to traffic.

For More Information

ADDITIONAL INFORMATION

Citizens Guide to Transportation Funding in Missouri

www.modot.org/guidetotransportation/

TRACKER: Measures of Performance

www.modot.org/about/Tracker.htm

Appendices and Additional Documents

www.modot.org/Results/Documents.html

“Innovation is woven into
MoDOT’s culture and is
embraced by our partners.”



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